Siren System Control Centre Technology

When several electronic sirens are connected to form a warning system that is to be monitored and controlled by one or more control centers, a reliable and mature communication network is required. For this task, HÖRMANN Warnsysteme has developed the Management Control Equipment (MCE), which acts as the central interface between the user interfaces – the control software (CCCS) and control panel (RCS) - and the electronic sirens. In complex siren systems, such as nationwide warning systems with several control centers and a multitude of electronic sirens, the MCE simultaneously assumes the function of a network node.

KSC

CCCS

MCE

RCS

ELECTRONIC SIRENS

Technical specifications - MCE

- 19" plug-in technology
- Mains power supply 230 VAC or 110 VAC +/-10%
- Backup power supply with integrated 12 VDC battery
- Embedded Low Power Industrial CPU
- Diverse Interfaces: Ethernet (TCP/IP), Analogue or Digital Radio, GSM/GPRS, Fibre Optic, Satellite, RS232/RS485, etc.
- Message encryption and security encoding prevent unauthorized system access
- Free assignable digital I/Os
- Scalable hardware structure
- No moving parts like fans or harddisks
- QNX™ RTOS Realtime Multitasking Operating System
- Modular software architecture for customization of user specific needs

THE MCE GATEWAY
is the central element in the control and management of our electronic sirens in a siren system.
As a communication interface, it sits between the sirens and the control centers.

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The MCE control center technology can be addressed and operated via different user interfaces:
The CCCS operating software or the RCS control panel.

Control Software - CCCS

- Password protected login
- Activation of electronic sirens with key-switch and/or password protection
- Ad-hoc selection and grouping of electronic sirens (single, groups, or all electronic sirens)
- Activation of alarms, pre-recorded messages and live PA announcements
- Electronic sirens and control centre status using colour-coded map icons (green, yellow, red)
- Flat navigation structure ensures intuitive use
- Map based GIS application
- Database of siren and control centre status and operator activity over the whole period of time
- Creation of alarm statistics with detailed evaluation
- Tabular display of activities down to the second
- Data print and export functions

CCCS CONTROL SOFTWARE
Simple and intuitive software for controlling and monitoring a siren warning and notification system. Activation of electronic sirens in seconds, status display following traffic light principle.

Control Panel - RCS

- Rugged desktop panel
- ARM11 embedded panel PC with touch-screen
- Flexible selection of electronic sirens (single, groups, all electronic sirens)
- Activation of alarms, pre-recorded messages and live PA announcements
- Intuitive menu navigation through all operational system functions via touch screen
- Status monitoring of electronic sirens via colourcoded LED icons (green, yellow, red)
- Key-switch for electronic siren activation
- 12 VDC power supply from MCE
- Optional with microphone and PTT button for live PA announcements

RCS CONTROL PANEL
Touch panel for easy monitoring and activation of the electronic sirens.
Status display following traffic light principle. Electronic sirens are triggered in seconds through intuitive operation procedure.